

FIG. 1

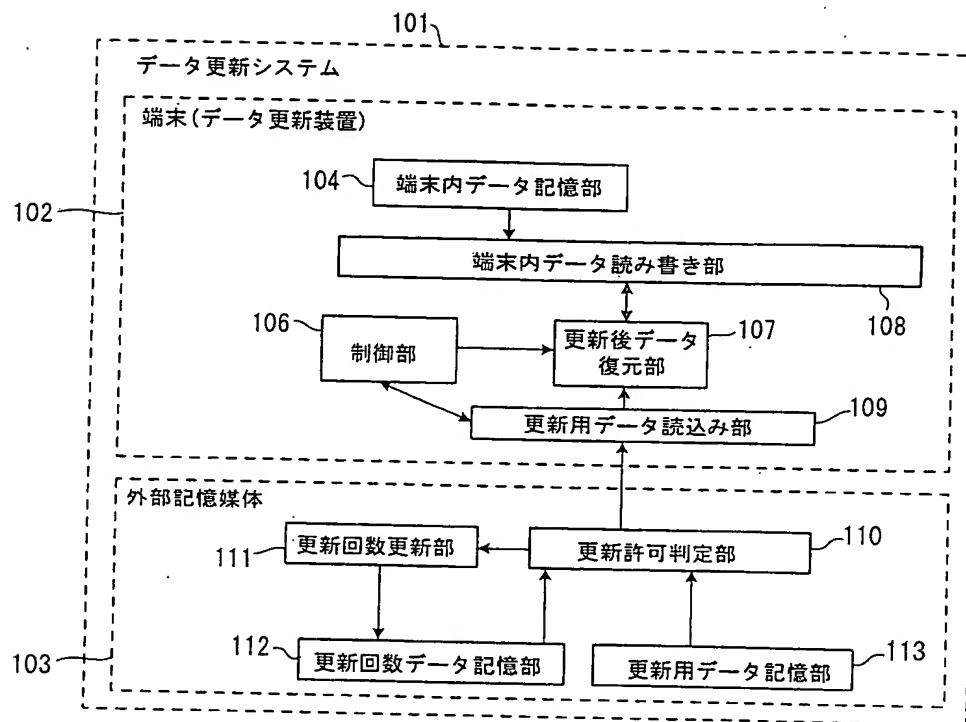


FIG. 1

101 .. DATA UPDATING SYSTEM

102 .. TERMINAL(DATA UPDATING DEVICE)

103 .. EXTERNAL STORAGE MEDIUM

104 .. IN-TERMINAL DATA STORING PORTION

106 .. CONTROLLER

107 .. POST-UPDATE DATA RESTORING PORTION

108 .. IN-TERMINAL DATA READING/WRITING PORTION

109 .. UPDATE DATA READING PORTION

110 .. UPDATE PERMISSION JUDGING PORTION

111 .. UPDATE FREQUENCY DATA STORING PORTION

112 .. UPDATE FREQUENCY DATA STORING PORTION

113 .. UPDATE DATA STORING PORTION

Fig. 2

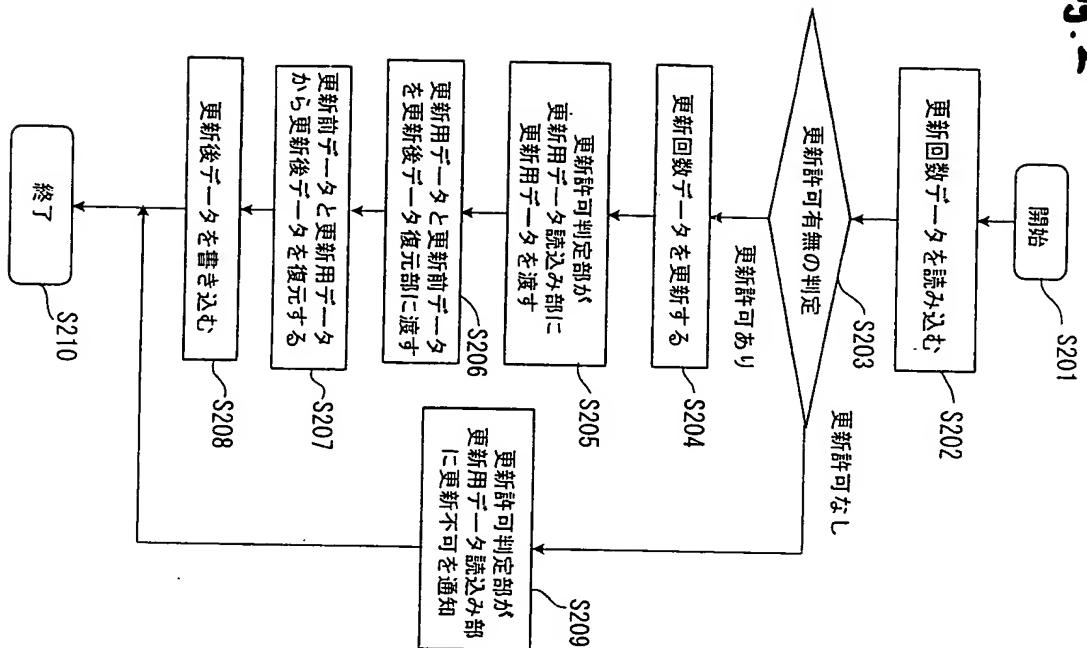


FIG. 2

S201 .. START
S202 .. READ UPDATE FREQUENCY DATA
S203 .. PRESENCE OR ABSENCE OF UPDATE PERMISSION IS JUDGED ?

NO UPDATE PERMISSION

UPDATE PERMISSION

S204 .. UPDATE UPDATE-FREQUENCY DATA

S205 .. UPDATE PERMISSION JUDGING PORTION DELIVERS UPDATE DATA TO
UPDATE DATA READING PORTION

S206 .. DELIVER UPDATE DATA AND PRE-UPDATE DATA TO POST-UPDATE DATA
READING PORTION

S207 .. RESTORE POST-UPDATE DATA FROM PRE-UPDATE DATA AND UPDATE DATA
READING PORTION

S208 .. WRITE POST-UPDATE DATA

S209 .. UPDATE PERMISSION JUDGING PORTION NOTIFIES UPDATE DATA READING
PORTION OF UPDATE-IMPOSSIBILITY

S210 .. END

Fig. 3

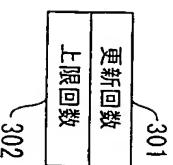


FIG. 3

- 301 .. UPDATE FREQUENCY
- 302 .. UPPER LIMIT FREQUENCY

FIG. 4

Fig. 4

- S401 .. START JUDGMENT OF PRESENCE OR ABSENCE OF UPDATE PERMISSION
- S402 .. READ UPDATE FREQUENCY AND UPPER LIMIT FREQUENCY
- S403 .. UPDATE FREQUENCY IS LESS THAN UPPER LIMIT FREQUENCY?
- S404 .. JUDGE PRESENCE OF UPDATE PERMISSION
- S405 .. JUDGE ABSENCE OF UPDATE PERMISSION
- S406 .. END JUDGMENT OF PRESENCE OR ABSENCE OF UPDATE PERMISSION

Fig. 5

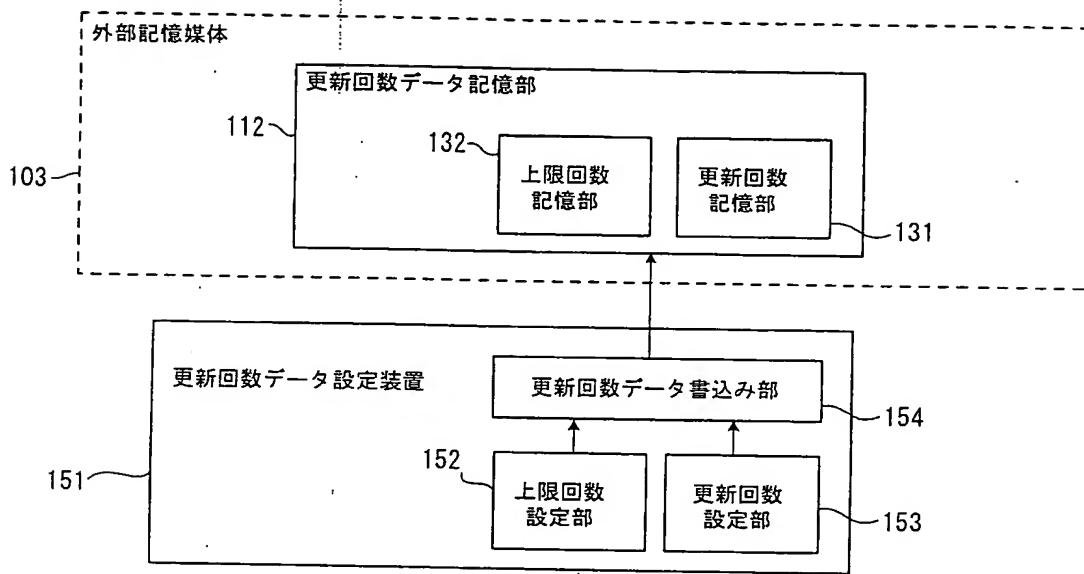


FIG. 5

103 .. EXTERNAL STORAGE MEDIUM

112 .. UPDATE FREQUENCY DATA STORING PORTION

131 .. UPPER LIMIT FREQUENCY STORING PORTION

132 .. UPDATE FREQUENCY DATA WRITING PORTION

151 .. UPDATE FREQUENCY DATA SETTING DEVICE

152 .. UPPER LIMIT FREQUENCY SETTING PORTION

153 .. UPDATE FREQUENCY SETTING PORTION

154 .. UPDATE FREQUENCY DATA WRITING PORTION

Fig. 6

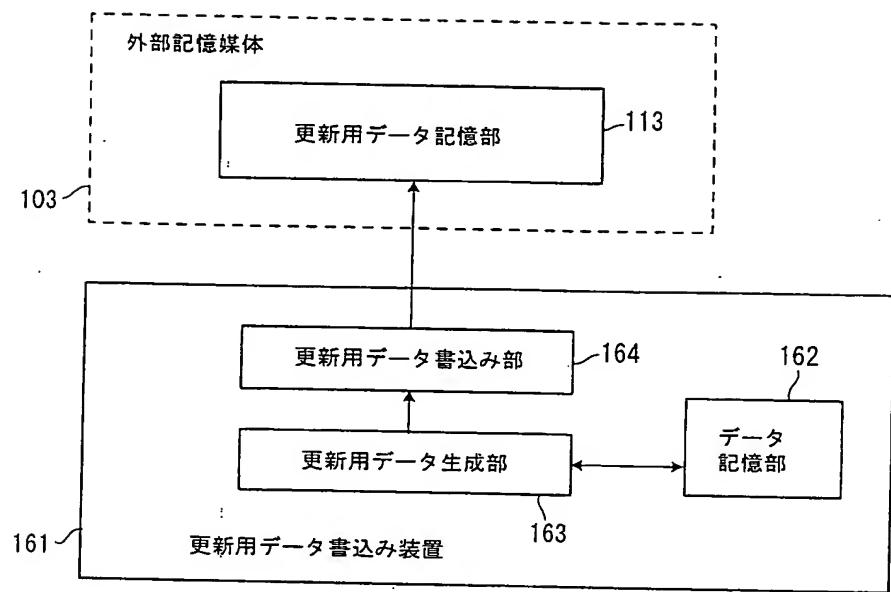


FIG. 6

103 .. EXTERNAL STORAGE MEDIUM

113 .. UPDATE DATA STORING PORTION

161 .. UPDATE DATA WRITING DEVICE

162 .. DATA STORING PORTION

163 .. UPDATE DATA GENERATING PORTION
164 .. UPDATE DATA WRITING PORTION

FIG. 7

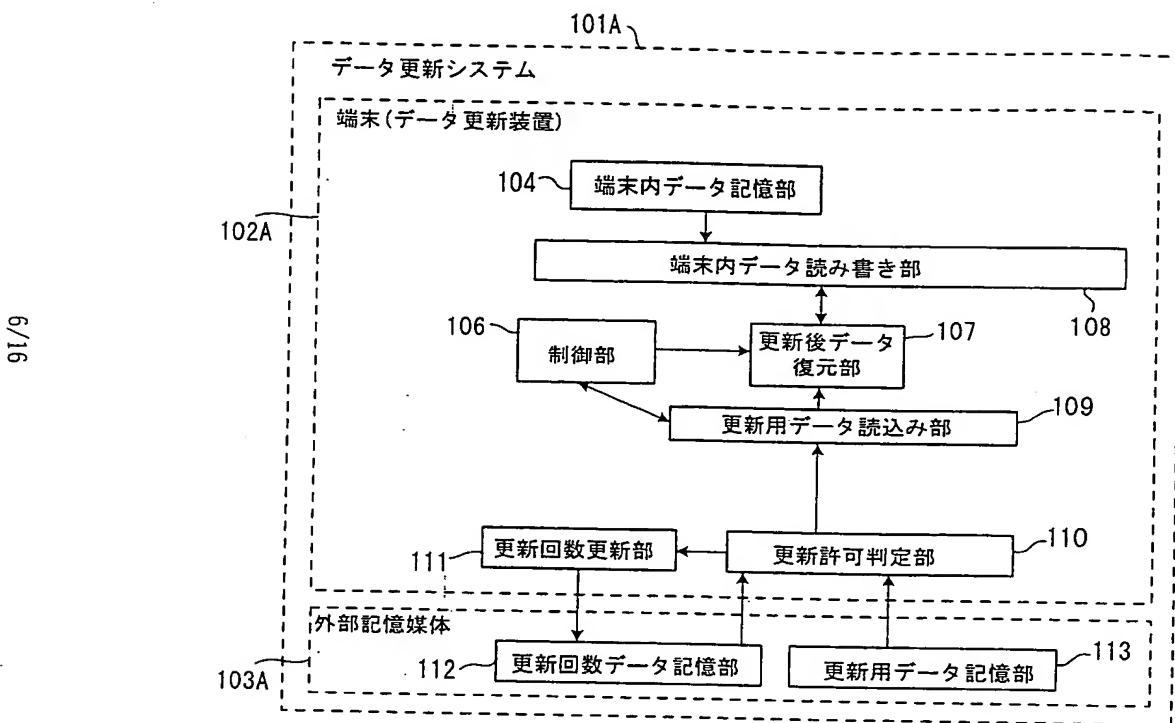


FIG. 7

101A.. DATA UPDATING SYSTEM

102A.. TERMINAL (DATA UPDATING DEVICE)

103A.. EXTERNAL STORAGE MEDIUM

104.. IN-TERMINAL DATA STORING PORTION

106.. CONTROLLER

107.. POST-UPDATE DATA RESTORING PORTION

108.. IN-TERMINAL DATA READING/WRITING PORTION

109.. UPDATE DATA WRITING PORTION

110.. UPDATE PERMISSION JUDGING PORTION

111.. UPDATE FREQUENCY UPDATING PORTION

112.. UPDATE FREQUENCY DATA STORING PORTION

113.. UPDATE DATA STORING PORTION

Fig. 8

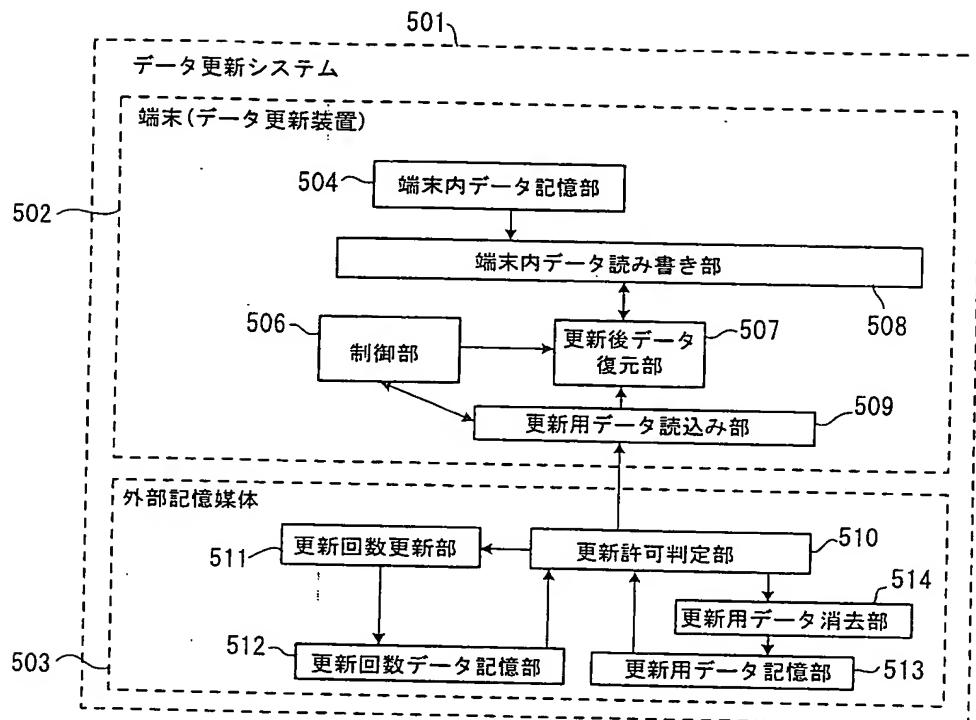


FIG. 8

501 .. DATA UPDATING SYSTEM

502 .. TERMINAL (DATA UPDATING DEVICE)

503 .. EXTERNAL STORAGE MEDIUM

504 .. IN-TERMINAL DATA STORING PORTION

506 .. CONTROLLER

507 .. POST-UPDATE DATA RESTORING PORTION

508 .. IN-TERMINAL DATA READING/WRITING PORTION

509 .. UPDATE DATA READING PORTION

510 .. UPDATE PERMISSION JUDGING PORTION

511 .. UPDATE FREQUENCY UPDATING PORTION

512 .. UPDATE FREQUENCY DATA STORING PORTION

513 .. UPDATE DATA STORING PORTION

514 .. UPDATE DATA DELETING PORTION

図9 Fig.9

FIG. 9

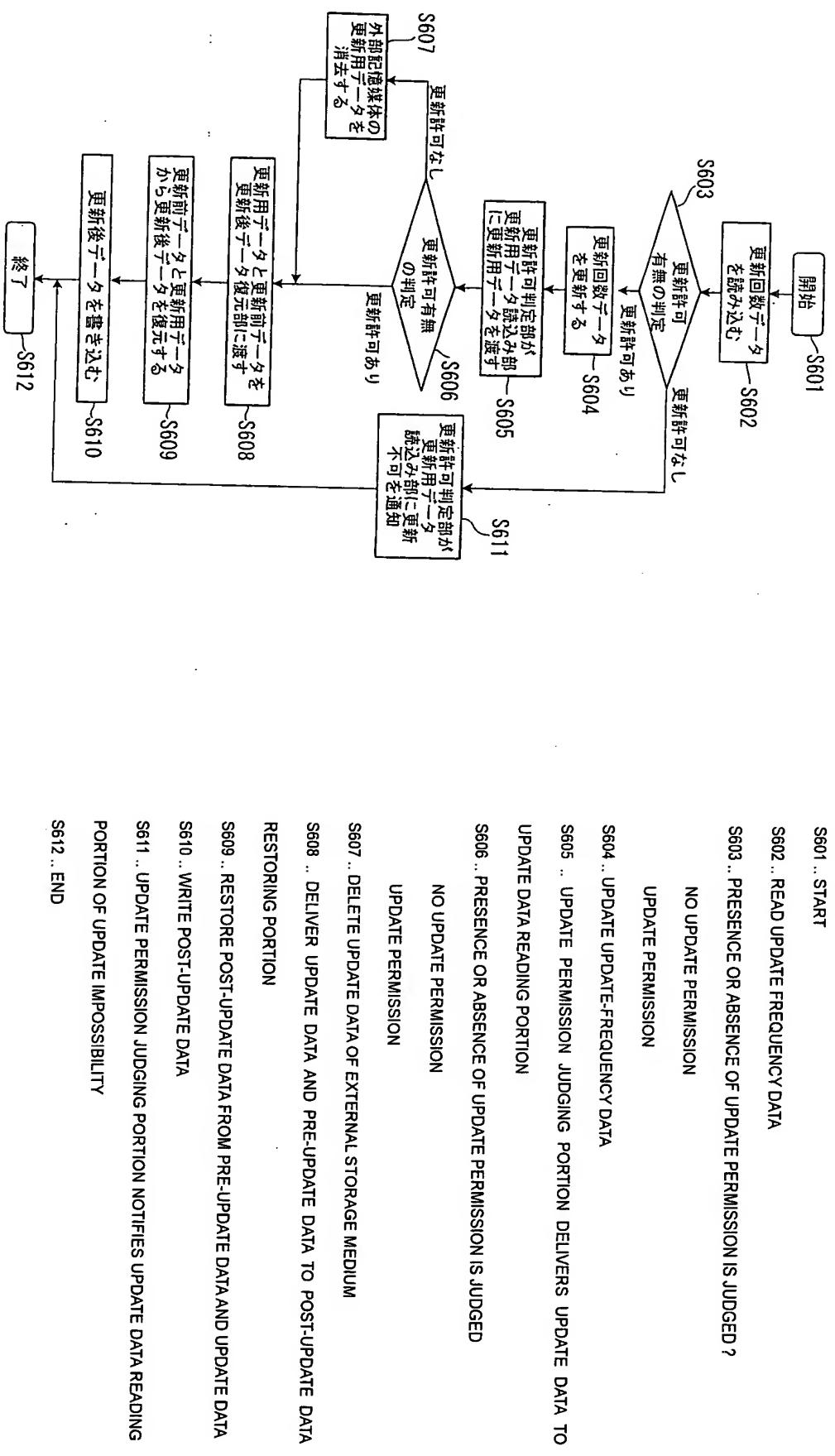


FIG. 10

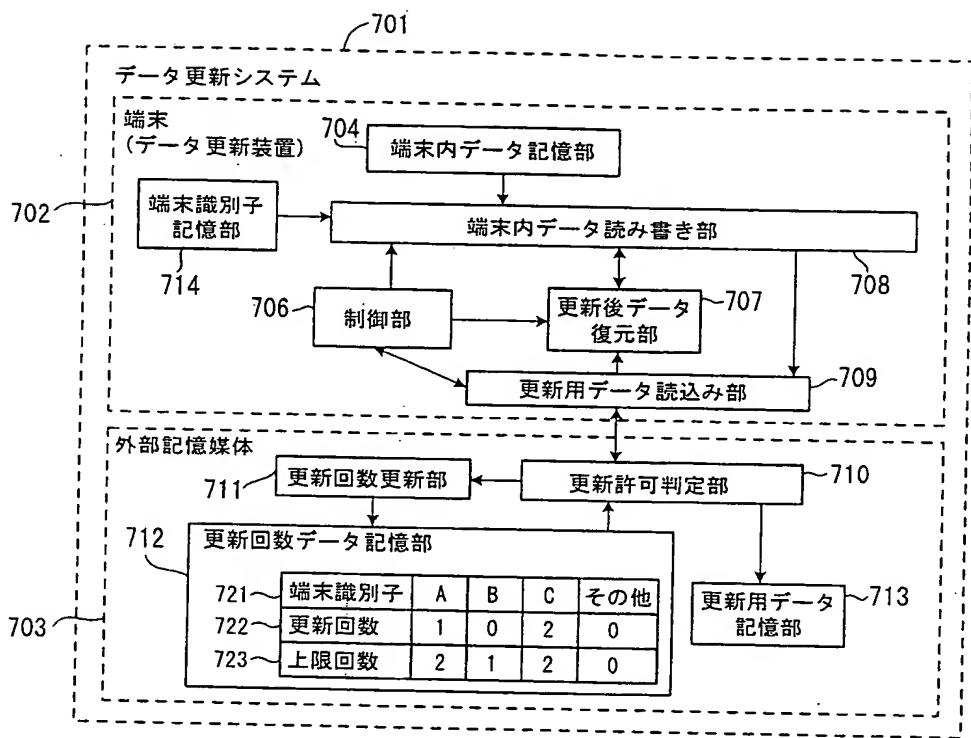


FIG. 10

701.. DATA UPDATING SYSTEM

702.. TERMINAL (DATA UPDATING DEVICE)

703.. EXTERNAL STORAGE MEDIUM

704.. IN-TERMINAL DATA STORING PORTION

706.. CONTROLLER

707.. POST-UPDATE DATA RESTORING PORTION

708.. IN-TERMINAL DATA READING/WRITING PORTION

709.. UPDATE DATA READING PORTION

710.. UPDATE PERMISSION JUDGING PORTION

711.. UPDATE FREQUENCY DATA STORING PORTION

713.. UPDATE DATA STORING PORTION

714.. TERMINAL IDENTIFYING STORING PORTION

721.. TERMINAL IDENTIFIER OTHERS

722.. UPDATE FREQUENCY

723.. UPPER LIMIT FREQUENCY

Fig. 11

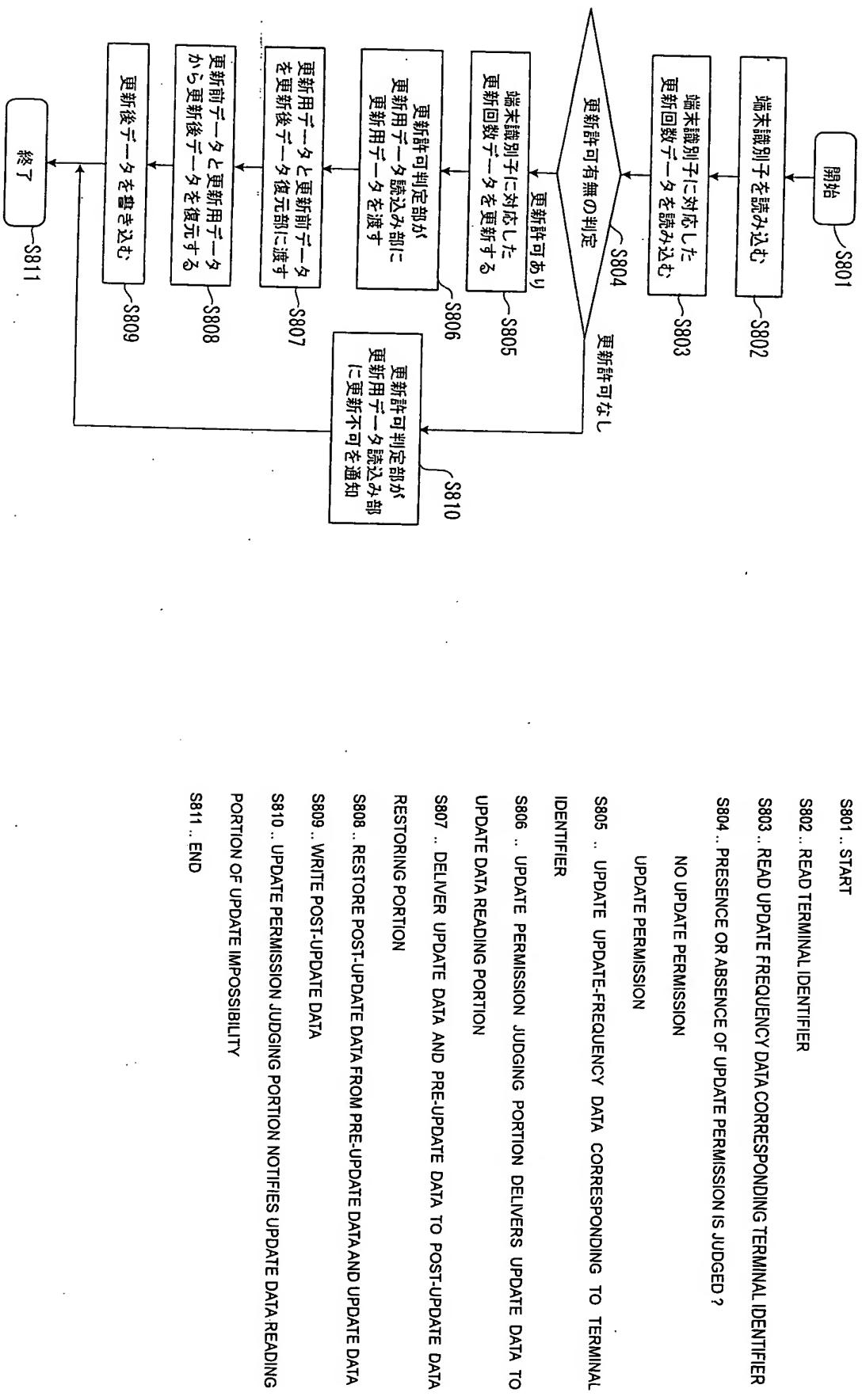


FIG. 12

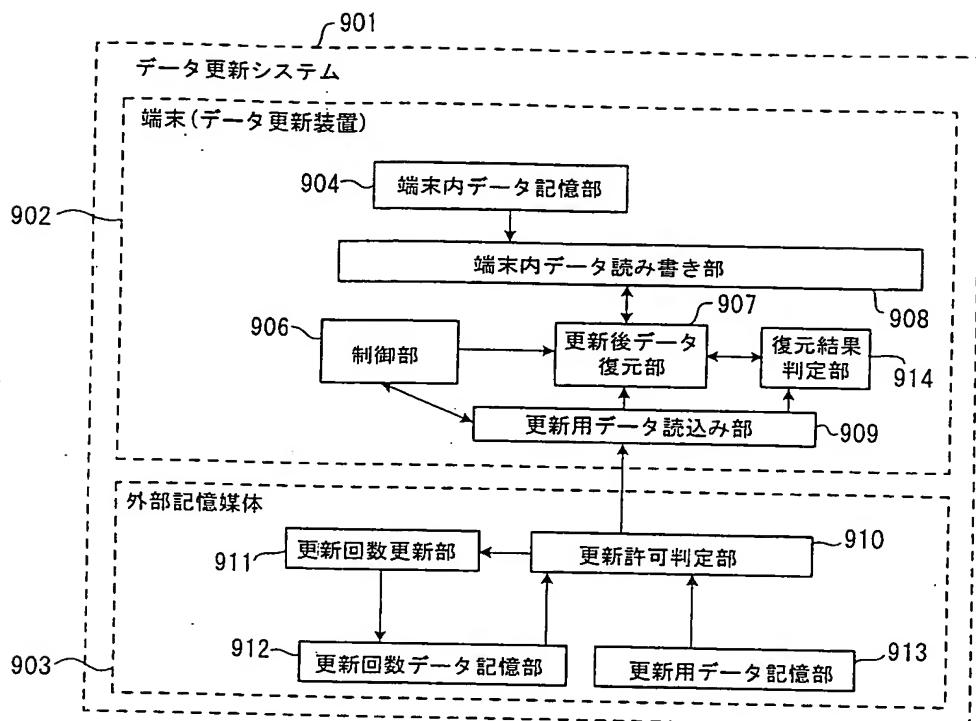


FIG. 12

901 .. DATA UPDATING SYSTEM

902 .. TERMINAL (DATA UPDATING DEVICE)

903 .. EXTERNAL STORAGE MEDIUM

904 .. IN-TERMINAL DATA STORING PORTION

906 .. CONTROLLER

907 .. POST-UPDATE DATA RESTORING PORTION

908 .. IN-TERMINAL DATA READING/WRITING PORTION

909 .. UPDATE DATA READING PORTION

910 .. UPDATE PERMISSION JUDGING PORTION

911 .. UPDATE FREQUENCY UPDATING PORTION

912 .. UPDATE FREQUENCY DATA STORING PORTION

913 .. UPDATE DATA STORING PORTION

914 .. RESTORATION RESULT JUDGING PORTION

図13 Fig.13

FIG. 13

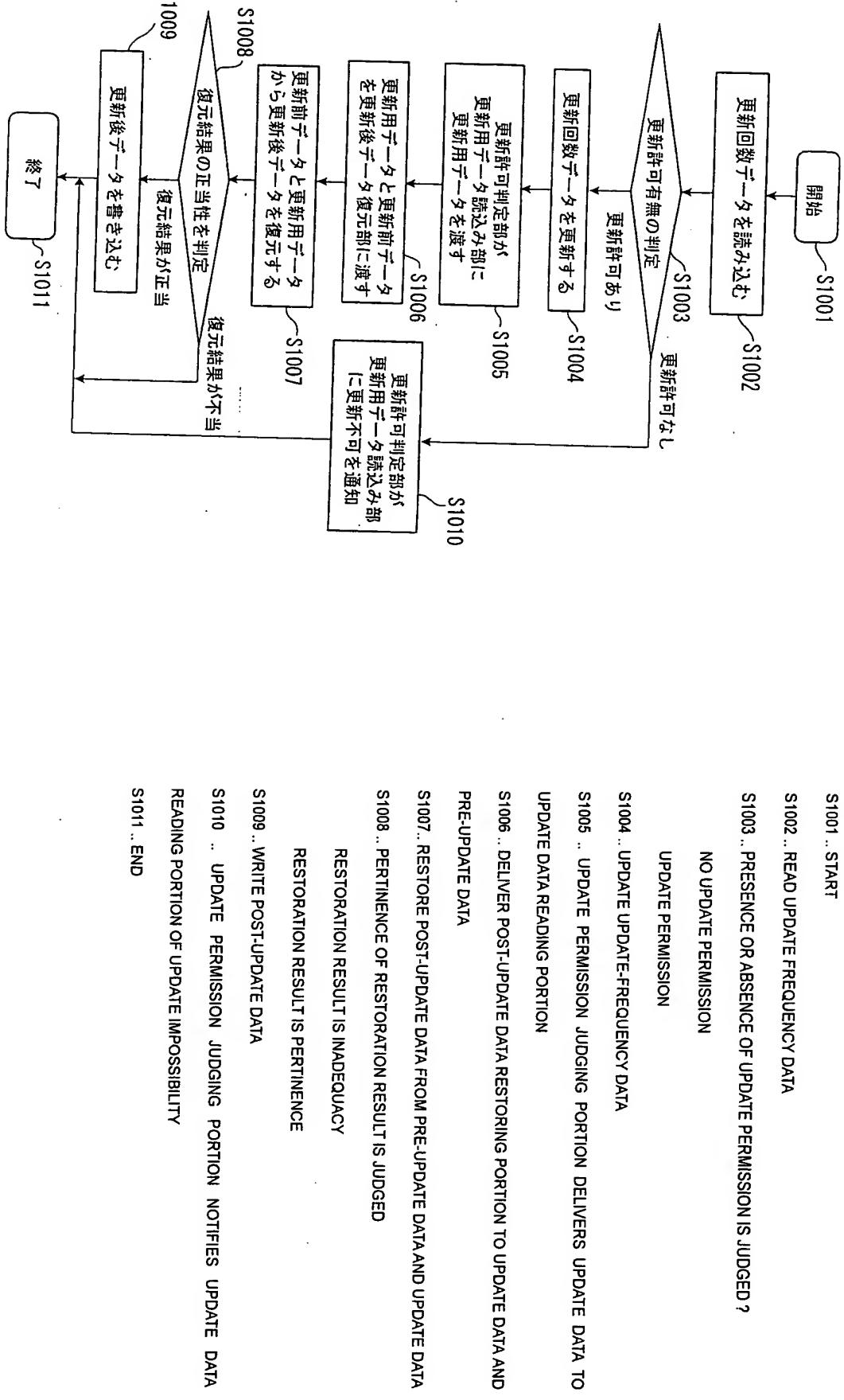


FIG. 14

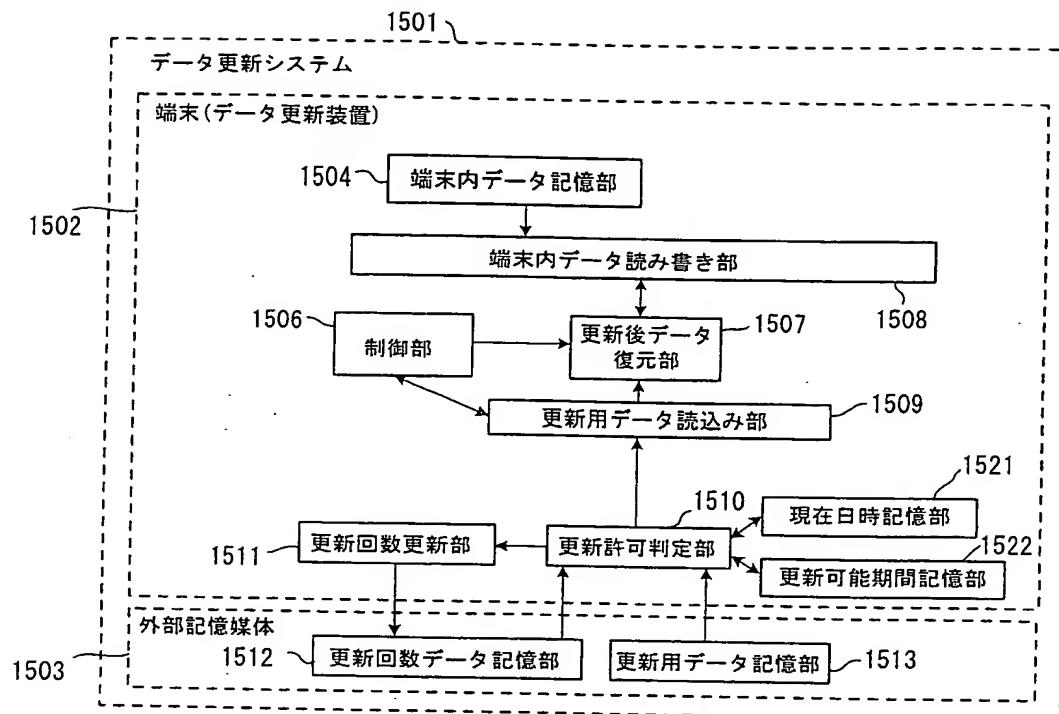


FIG. 14

1501 .. DATA UPDATING SYSTEM
1502 .. TERMINAL(DATA UPDATING DEVICE)

1503 .. EXTERNAL STORAGE MEDIUM
1504 .. IN-TERMINAL DATA STORING PORTION
1505 .. IN-TERMINAL DATA READING/WRITING PORTION

1506 .. CONTROLLER
1507 .. POST-UPDATE DATA RESTORING PORTION
1508 .. UPDATE DATA READING PORTION

1509 .. UPDATE FREQUENCY DATA STORING PORTION
1510 .. UPDATE PERMISSION JUDGING PORTION
1511 .. UPDATE FREQUENCY UPDATING PORTION

1512 .. PRESENT TIME AND DATE STORING PORTION

1513 .. UPDATEABLE TERM STORING PORTION
1521 .. UPDATE FREQUENCY DATA STORING PORTION
1522 .. UPDATEABLE TERM STORING PORTION

図.15

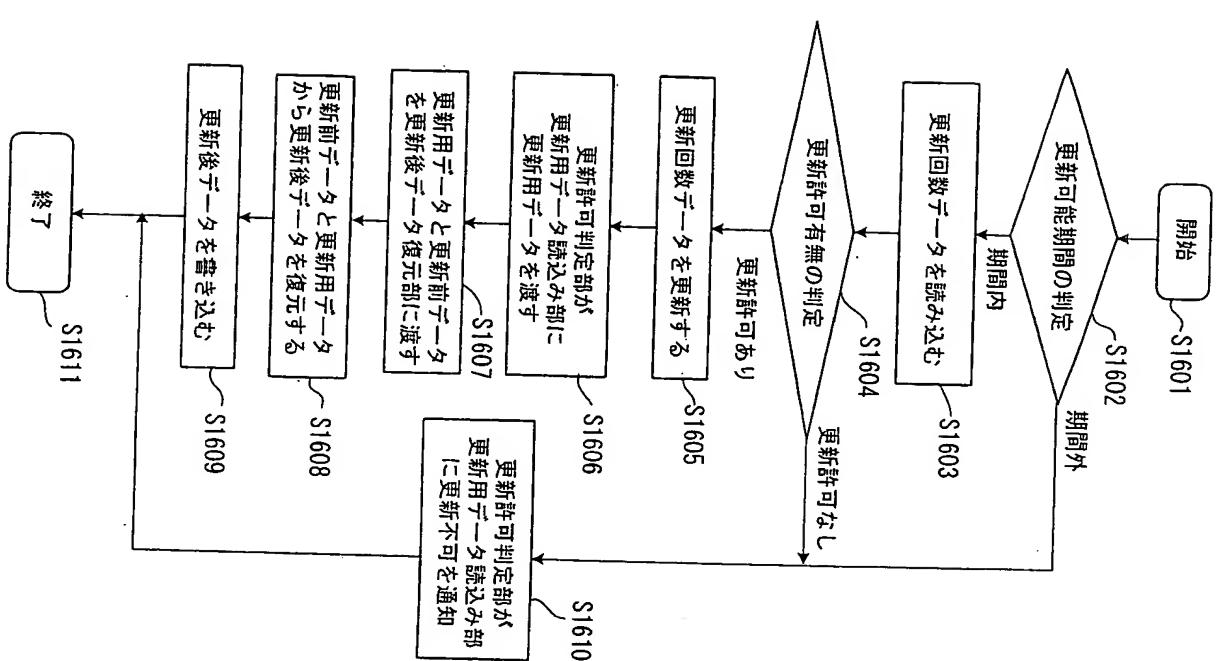


FIG. 15

FIG. 16

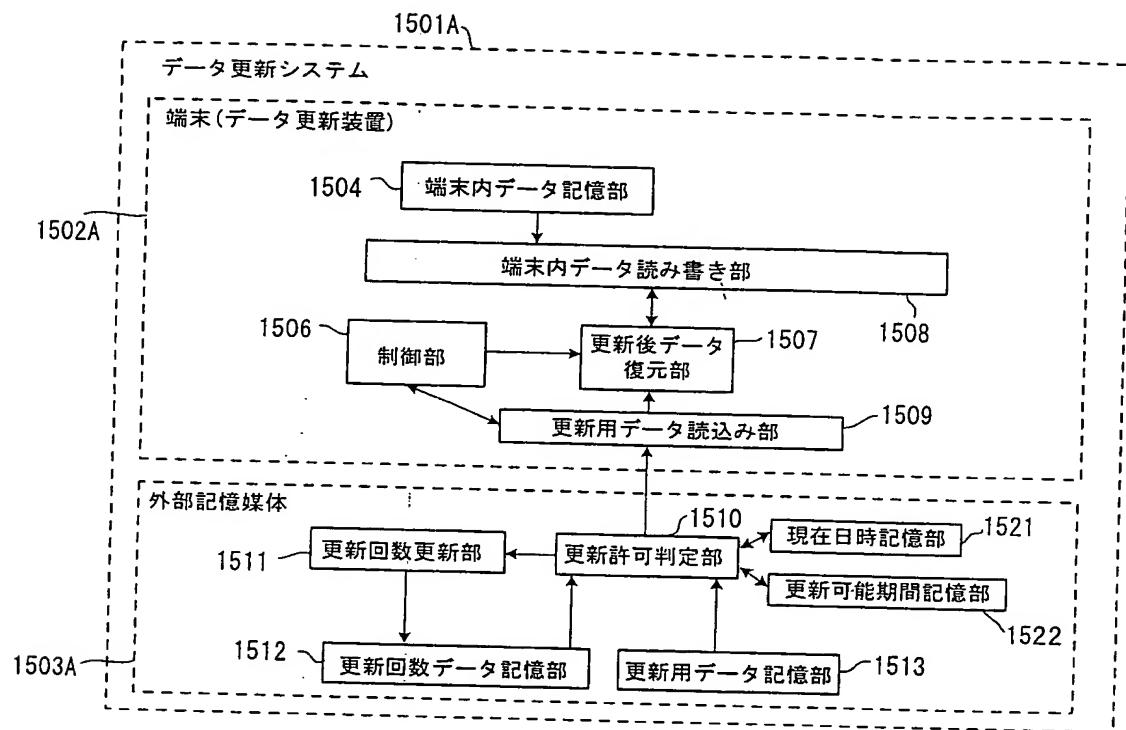


FIG. 16

1501A.. DATA UPDATING SYSTEM

1502A.. TERMINAL (DATA UPDATING DEVICE)

1503A.. EXTERNAL STORAGE MEDIUM

1504.. IN-TERMINAL DATA STORING PORTION

1506.. CONTROLLER

1507.. POST-UPDATE DATA RESTORING PORTION

1508.. IN-TERMINAL DATA READING/WRITING PORTION

1509.. UPDATE DATA READING PORTION

1510.. UPDATE PERMISSION JUDGING PORTION

1511.. UPDATE FREQUENCY UPDATING PORTION

1512.. UPDATE FREQUENCY DATA STORING PORTION

1513.. UPDATE DATA STORING PORTION

1521.. PRESENT TIME AND DATE STORING PORTION

1522.. UPDATABLE TERM STORING PORTION

FIG. 17

DATA UPDATING SYSTEM

1201 .. TERMINAL

1202 .. EXTERNAL STORAGE MEDIUM

1203 .. IN-TERMINAL DATA STORING PORTION

1204 .. POST-UPDATE DATA RESTORING PORTION

1205 .. UPDATE DATA READING PORTION

1207 .. IN-TERMINAL DATA READING/WRITING PORTION

1208 .. CONTROLLER

1210 .. UPDATE DATA STORING PORTION

